

# PATENT SPECIFICATION

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International Classification:—A21b. E05c. F24b.

## COMPLETE SPECIFICATION

### Fastenings for Double Doors

We, RADIATION LIMITED, of Radiation House, 7 Stratford Place, London, W.1, a British Company, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention has for its object to provide in a simple and convenient form, a fastening for separately securing the inner and outer parts of a double door used on a gas or otherwise heated cooking oven or other apparatus.

A fastening in accordance with the invention comprises the combination of a pivoted and spring loaded catch adapted to be mounted on an inner door part and to engage a keeper on the door frame, another catch adapted to be pivotally mounted on an outer door part and to engage a keeper on the first catch, and a pair of spring loaded push buttons arranged to actuate the second catch, so that depression of one of the push buttons serves to release the second catch, and depression of the other push button serves, through the medium of the second catch, to release the first catch.

In the accompanying drawings:

Figure 1 is a sectional side elevation; and

Figure 2 a sectional plan illustrating a fastening in accordance with the invention as applied to the double door of a cooking oven.

Referring to the drawings, a frame at the open front part of the oven is indicated by *a*. To one of the vertical edges of the frame are attached by coaxial hinges as *b*, an inner door part *c*, and an outer door part *d*. The part *c* usually includes a transparent panel *e*, and the outer part is made from a pair of metal sheets which may contain between them a thermally insulating lagging *f*. Adjacent to its free vertical edge the outer door part is provided with a handle *g*.

The fastening forming the subject of the present invention comprises a catch *h* which is carried by a pivot *i* on an attachment *j* adapted to be secured to the inner door part, and is

loaded by a spring *k*. This catch is adapted to engage a keeper *m* which is preferably in the form of a roller, the keeper being mounted on an attachment *n* which is secured to the oven frame by a screw *o* and is adjustable by a screw *p*.

In a hollow portion of the handle *g* is mounted by a pivot *q* a second catch *r* which is adapted to act on a keeper *s* on the catch *h*. Also on the handle are carried a pair of push buttons *t*, *u*, one of which is loaded by a spring *v*, and the other by a spring *w*.

When both door parts are closed and secured by the fastening, the components of the fastening occupy the relative positions shown in the drawings. To release the front door part an inward movement is given to the push button *u*. This has the effect of releasing the catch *r* from the keeper *s*. To release both of the door parts, the push button *t* is pressed inwardly. This has the effect of causing the catch *r* by pressure on the keeper *s* to disengage the catch *h* from the keeper *m*. On slamming the door parts to their closed positions, the catches automatically resume the positions shown in the drawings.

Whilst the invention is primarily intended for use on double doors, for gas, or otherwise, heated cooking ovens, it may be applied in essentially the same manner to double doors for other analogous purposes, such as for refrigerators, cupboards or the like.

What we claim is:—

1. A double door fastening comprising the combination of a pivoted and spring loaded catch adapted to be mounted on an inner door part and to engage a keeper on the door frame, another catch adapted to be pivotally mounted on an outer door part and to engage a keeper on the first catch, and a pair of spring loaded push buttons arranged to actuate the second catch, so that depression of one of the push buttons serves to release the second catch, and depression of the other push button serves, through the medium of the second catch, to release the first catch.

2. A double door fastening comprising the

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combination and arrangements of parts substantially as described and as illustrated by the accompanying drawings.

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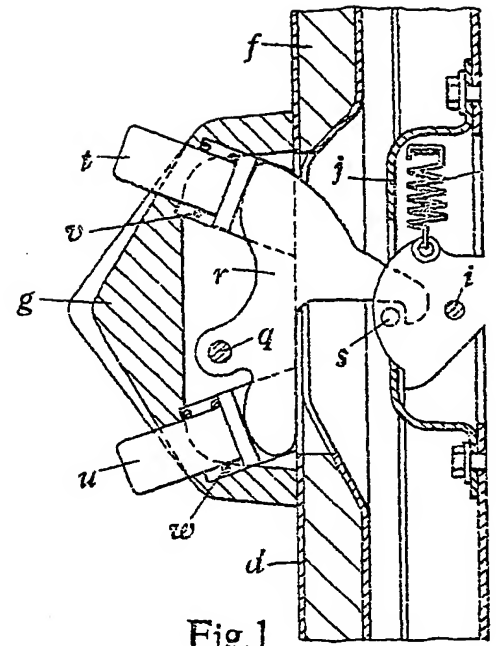


Fig.1

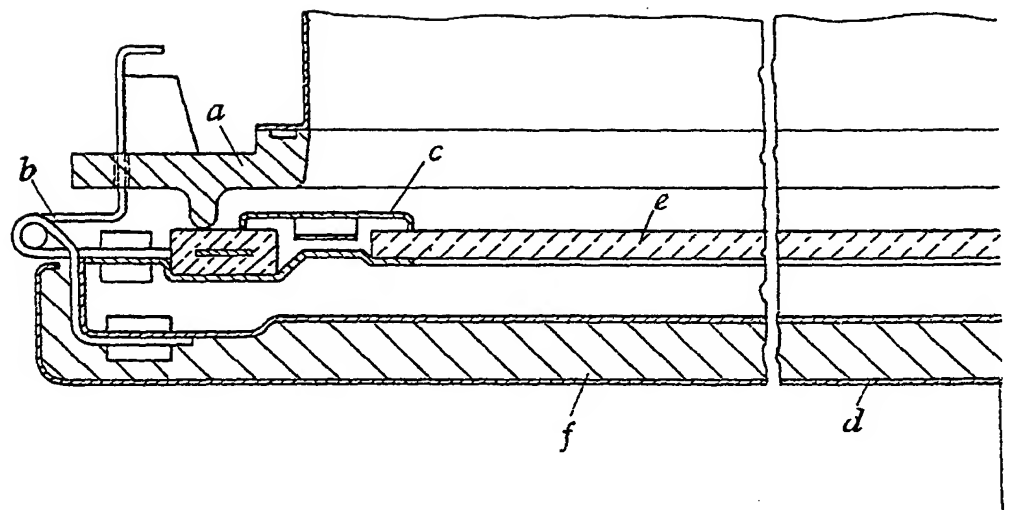
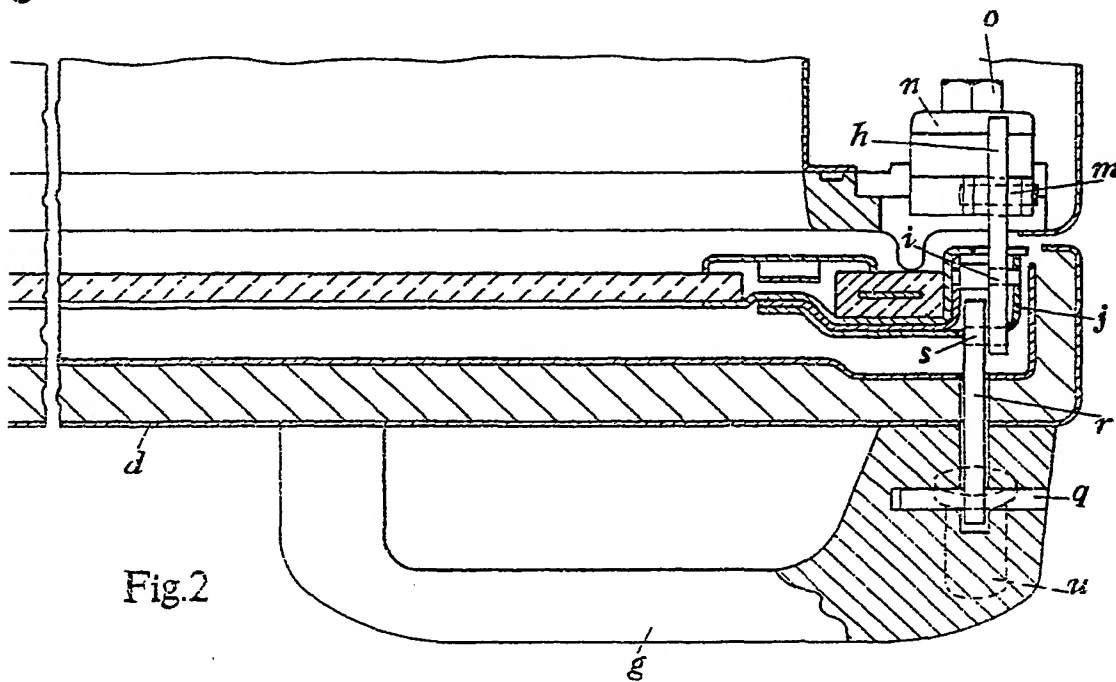
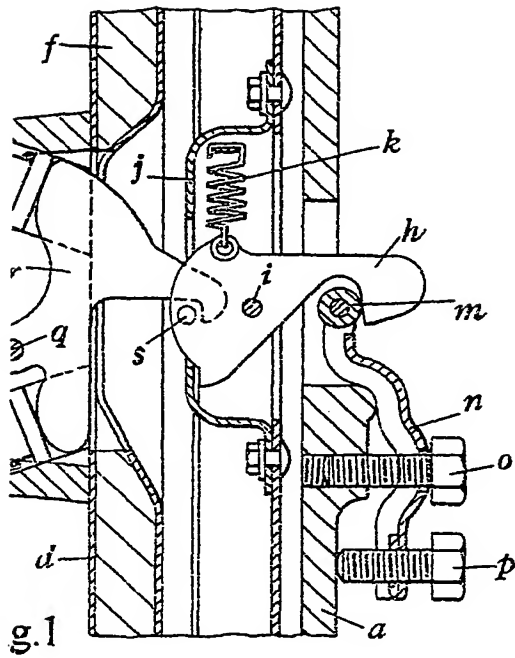


Fig.2

# 765,006 COMPLETE SPECIFICATION

1 SHEET

This drawing is a reproduction of the Original on a reduced scale.



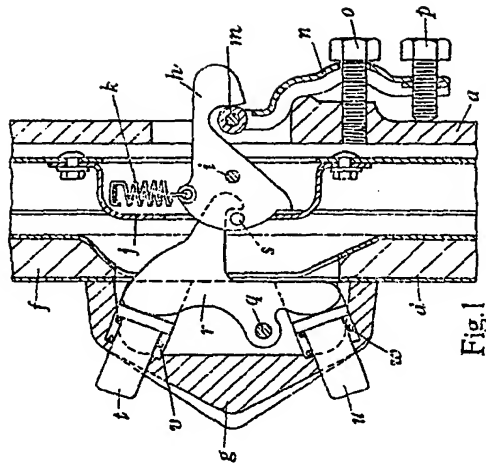


Fig. 1

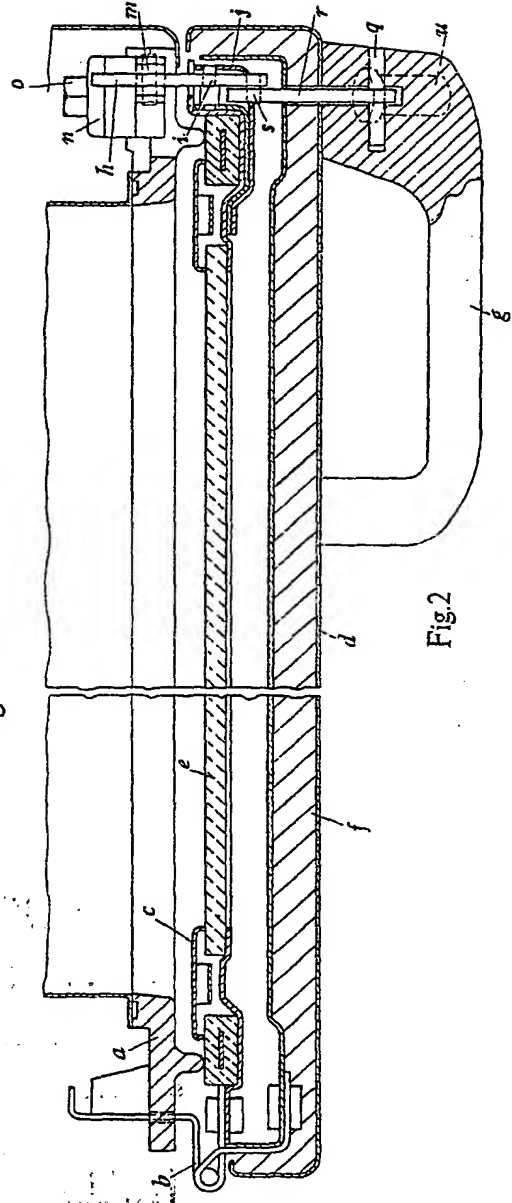


Fig. 2

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